

Collins KWM-2, AVC Action: 45, Nov.  
 Common-Made Hum in Direct-Conversion Receivers: 51, July  
 Connectors on Coaxial Cable, Easier Installation: 45, Jan.  
 Copper-Clad Wire for Antennas: 44, Dec.  
 Continuously Loaded Helical: 49, May  
 Counter Probe: 45, Sept.  
 Crystal Calibrator Has Pulsed Output: 45, Nov.  
 CW QSK, Simple: 45, Dec.  
 Dielectric "No-No": 56, Apr.  
 Dipole Antennas, Center Insulator: 45, Jan.  
 Dismantling Tower Sections: 47, June  
 Drake R-4B VFO Problem: 44, Feb.  
 Drake R-4C, Additional RF Control: 45, Sept.  
 Drake TR-4C/R-4C T-R Lever: 44, Dec.  
 Drake Transmitters, VOX Hint: 44, Nov.  
 Dual-Band Operation with a 33-Foot Vertical: 46, June  
 Galvanic Action and Grounds: 46, June  
 Gamma-Match Reliability: 46, Dec.  
 Grid-Dip-Meter Range, Extending: 45, Sept.  
 Heath DX-100, Keying: 49, Aug.  
 Feedback: 51, Sept.  
 Heath HM-102, Added Switch: 43, Feb.  
 Heath HP-23, Low Low-Voltage: 46, Oct.  
 Heath HW-12, QRP: 45, Sept.  
 Heath HW-16, Sidetone Level Adjust: 48, May  
 Heath HW-101, Better-Looking Dial: 43, Feb.  
 HW-101, VOX Relay Response During CW Operation: 44, Jan.  
 Heath HW-101, WWV on the: 49, Aug.  
 Feedback: 51, Sept.  
 Heath HW-2036, Two Changes: 46, Oct.  
 Heath IM-103, Keeping RF Out: 44, Jan.  
 Heath IM-104 Mod. Prevents Pegging: 56, Apr.  
 Heath SB-101 Owners, Hint for: 44, Sept.  
 Heath SB-101, Perking Up Sluggish: 44, Feb.  
 Heath SB-102, Birdies: 47, June  
 Heath SB-102, Eliminating AC Buzz: 44, Feb.  
 Heath SB-101, Faster Relay Response: 43, Feb.  
 Heath SB-401, Relay Hang-Up: 45, Dec.  
 KDK-144, Adding 1-MHz Offset: 56, Apr.  
 Kenwood TR-7400A Touch-Tone: 44, Nov.  
 Kenwood TS-520, CW Filter: 44, Sept.  
 Lightning-Arrestor Idea: 44, Sept.  
 Magnetic-Mount Antenna Inside: 47, June  
 Magnum Six, Eliminating Relay: 45, Sept.  
 Meteor-Scattering Timing Modification for the Accu-Keyer Memory: 57, Apr.  
 Meter Lights: 47, June  
 Mini-Miser's Dream Receiver, Eliminating 40-Meter Signal Leakage: 48, Mar.  
 Modifying the WICER/WIFB AGC Loop for MOSFET I-F Amplifiers: 47, June  
 More PEP — Less Paint: 50, July  
 Feedback: 32, Aug.; 51, Sept.  
 Mosley TA-33, First Aid: 44, Nov.  
 Needle in a Small Drill-Bit?: 44, Jan.  
 Feedback: 39, Mar.  
 NiCad Batteries, Constant-Current Charger: 49, Mar.  
 NiCad Cells and Battery Holders, Restoring: 45, Jan.  
 NOAA Weather Reports on 2-Meter FM Rigs: 45, Jan.  
 Novice Station — Economy Style: 49, Aug.  
 OSCAR Reminder: 44, Sept.  
 OSCAR SSB Spotting: 45, Nov.  
 Overvoltage Cutout for Field Day Generators: 49, Mar.

PC Boards, More on: 48, Aug.  
 PC Boards, Removing Transistors: 46, June  
 PEP Wattmeter, Switching Arrangement: 45, Oct.  
 Plastic-Bag Ties Make Neater Cable Harnesses: 56, Apr.  
 Plastic-Tab Transistor Insulator by the Yard: 51, July  
 Plastic Tubing Insulation: 45, Dec.  
 Potentiometer Turned Inductor: 48, May  
 Printed Circuit Face Lift: 49, Aug.  
 QST Course Receiver, More Audio: 45, Oct.  
 Radials Installed the Easy Way: 48, Aug.  
 Removing Hard-to-Reach PA Tubes: 45, Jan.  
 Repairing Threads on Shaft Bushings: 46, Sept.  
 S9 Noise — Well-Baked: 45, Oct.  
 Shaft-Bearings from Old Potentiometers, Use for: 49, Aug.  
 Shaft-Couplers from Knobs: 46, Dec.  
 Simplified Output Metering Protects QRP Transmitters: 57, Apr.  
 Small Drills: 45, Sept.  
 "Smart" Blown-Fuse Indicator: 48, Mar.  
 Soldering-Control Unit, Junk-Box: 51, July  
 Soldering-Iron Tip, Replacement: 44, Jan.  
 Stainless-Steel Wire, Soldering: 45, Dec.  
 Swan 250, Two More Tips: 50, July  
 Swan 250-C, ALC: 49, May  
 Tempo One S-Meter: 45, Sept.  
 Toroidal Coil Forms From Plastic Tubing: 44, Feb.  
 Toward Better-Looking Panel Labels: 45, Jan.  
 TVI Hint, Another: 45, Sept.  
 Twin Lead, Stripping: 44, Sept.  
 Type F to BNC Adaptors: 57, Apr.  
 Unwanted RF Path: 46, Dec.  
 Variable CW Resistance: 44, Dec.  
 VOX for Very Small Box Modification: 44, Dec.  
 VFOs, Adjustable Temperature Compensation: 43, Feb.  
 Wahl Cordless Soldering Irons, Short-Circuit Protection: 44, Nov.  
 Wilson 1402SM, Improved Battery Charger: 48, Mar.  
 Yaesu FT-101E/EE VOX Relay: 45, Dec.

## INTERNATIONAL NEWS

Amateur Radio Celebrates 20th Anniversary of Sister Cities International (Steinman): 60, Feb.  
 American Amateurs: Want to Operate in Czechoslovakia?: 79, June  
 Are You Legal?: 79, June  
 Bermuda: Hams to the Rescue: 55, Dec.  
 Brazil Brews Changes: 73, Mar.  
 C'est Bon: 160 Meters and 2-Meter Repeaters: 68, May  
 Denmark: 50 Years of Amateur Radio: 55, Dec.  
 Friedrichshafen: 61, Oct.  
 Geneva: Getting Ready: 75, Apr.  
 Gibraltar — Welcome!: 73, Mar.  
 Greece: Ancient Ideals and Amateur Radio: 68, May  
 Growth by Leaps and Bounds: 73, Mar.  
 Japan: 50 Years of Amateur Radio: 67, Jan.  
 K2UN: Uniting Humanity: 67, Jan.  
 Liberia and USA: Reciprocal Partners: 55, Dec.  
 Lord Wallace: New Leader for British Amateur Radio: 75, Apr.  
 Phone Patches, A Final Word on: 55, Dec.

Plunge Forward, The: 61, Oct.  
 Portugal: Amateur Radio Thriving: 79, June  
 Reciprocal Licensing with DU: 72, Feb.  
 So What's an IARU?: 65, Nov.  
 Suriname Officers Elected: 33, Nov.  
 Think . . . Before You Run That Patch: 71, Aug.  
 U.S./Jamaica Third-Party Agreement: 69, Sept.  
 Want to Operate in the USSR?: 75, Feb.  
 WARC-79: The Official Agenda: 69, Sept.  
 West Germany: 55, Dec.  
 What's a WARC?: 75, Feb.  
 World Telecommunications Day, May 17: 75, Apr.  
 Zambia: Spreading the Good Word: 55, Dec.

## KEYING, BREAK-IN & CONTROL CIRCUITS

Accu-Repeat, The WING (Bolin): 29, Sept.  
 Control System for Your Station: Simple and Economical, A (Harder): 31, Feb.  
 Daniel's Key (Nevels): 21, Dec.  
 Full Break-In and RIT for the HW-8 QRP Transceiver (Saylor): 22, July  
 Feedback: 20, Nov.  
 Fully Automatic Morse Code Teaching Machine, A (Cunningham): 35, May  
 How to Adjust a Straight Key and Send Good Code (Bartlett): 15, Dec.  
 Keying Wave-Shape Correction Circuit (Dome): 15, May  
 Key to Success, A (Wissell): 19, Dec.  
 Poor Boy's Paddle, A (Goldstein): 22, Dec.  
 Prototype Pulse-Code Modulation System, A (Biancomano): 24, Jan.  
 Stark Key, The (Stark): 33, May

## MEASUREMENT & TEST EQUIPMENT

Build a UTO-1 (DeMaw): 19, Oct.  
 Cardboard "Clock," — A Simple Universal Time Coordinator (Hultquist): 56, Nov.  
 Dual-Gate MOSFET Dip Meter, A (Bruin): 16, Jan.  
 DVM/Frequency Counter Becomes a Clock, The (Shriner): 18, Jan.  
 Solid-State BC-221 Frequency Meter (Rau): 35, Feb.  
 Testing Grade-Out Integrated Circuits (Norris): 17, June  
 Using a Frequency Counter as a Capacitance Meter (Kramer): 19, Aug.  
 Using the Heath SB-650 Frequency Display with the Yaesu FT-101 (Wright): 24, Mar.  
 Versatile Digital Frequency Display, A (Rand): 21, Nov.

## MISCELLANEOUS GENERAL

Anderson Answered: Local Hams Do the Job (O'Dell): 70, June  
 ARRL Code of Ethics (Aurick): 11, Nov.  
 ARRL Foundation: We'll Put You in Orbit (Shima): 62, May  
 ARRL Presents the Wide World of Amateur Radio (O'Dell): 61, May  
 Attention All Clubs: Have a Carrot on Us (Cain): 50, Aug.  
 Beware! Amateur Radio'll Get Ya if Ya Don't Watch Out! (Meyers): 51, Feb.  
 Bonanza Awaits You in the Ham-Ads, A (Goodman): 11, Dec.  
 Canadian Winter Rally, The (Goldstein): 56, Jan.  
 CB to Ham in Two Easy Classes (Kleinman): 54, Sept.  
 Cleaning Up the Airwaves, OBP-Style: 12, Nov.

Collins KWM-2, AVC Action: 45, Nov.  
 Common-Made Hum in Direct-Conversion Receivers: 51, July  
 Connectors on Coaxial Cable, Easier Installation: 45, Jan.  
 Copper-Clad Wire for Antennas: 44, Dec.  
 Continuously Loaded Helical: 49, May  
 Counter Probe: 45, Sept.  
 Crystal Calibrator Has Pulsed Output: 45, Nov.  
 CW QSK, Simple: 45, Dec.  
 Dielectric "No-No": 56, Apr.  
 Dipole Antennas, Center Insulator: 45, Jan.  
 Dismantling Tower Sections: 47, June  
 Drake R-4B VFO Problem: 44, Feb.  
 Drake R-4C, Additional RF Control: 45, Sept.  
 Drake TR-4C/R-4C T-R Lever: 44, Dec.  
 Drake Transmitters, VOX Hint: 44, Nov.  
 Dual-Band Operation with a 33-Foot Vertical: 46, June  
 Galvanic Action and Grounds: 46, June  
 Gamma-Match Reliability: 46, Dec.  
 Grid-Dip-Meter Range, Extending: 45, Sept.  
 Heath DX-100, Keying: 49, Aug.  
 Feedback: 51, Sept.  
 Heath HM-102, Added Switch: 43, Feb.  
 Heath HP-23, Low Low-Voltage: 46, Oct.  
 Heath HW-12, QRP: 45, Sept.  
 Heath HW-16, Sidetone Level Adjust: 48, May  
 Heath HW-101, Better-Looking Dial: 43, Feb.  
 HW-101, VOX Relay Response During CW Operation: 44, Jan.  
 Heath HW-101, WWV on the: 49, Aug.  
 Feedback: 51, Sept.  
 Heath HW-2036, Two Changes: 46, Oct.  
 Heath IM-103, Keeping RF Out: 44, Jan.  
 Heath IM-104 Mod. Prevents Pegging: 56, Apr.  
 Heath SB-101 Owners, Hint for: 44, Sept.  
 Heath SB-101, Perking Up Sluggish: 44, Feb.  
 Heath SB-102, Birdies: 47, June  
 Heath SB-102, Eliminating AC Buzz: 44, Feb.  
 Heath SB-101, Faster Relay Response: 43, Feb.  
 Heath SB-401, Relay Hang-Up: 45, Dec.  
 KDK-144, Adding 1-MHz Offset: 56, Apr.  
 Kenwood TR-7400A Touch-Tone: 44, Nov.  
 Kenwood TS-520, CW Filter: 44, Sept.  
 Lightning-Arrestor Idea: 44, Sept.  
 Magnetic-Mount Antenna Inside: 47, June  
 Magnum Six, Eliminating Relay: 45, Sept.  
 Meteor-Scattering Timing Modification for the Accu-Keyer Memory: 57, Apr.  
 Meter Lights: 47, June  
 Mini-Miser's Dream Receiver, Eliminating 40-Meter Signal Leakage: 48, Mar.  
 Modifying the WICER/WIFB AGC Loop for MOSFET I-F Amplifiers: 47, June  
 More PEP — Less Paint: 50, July  
 Feedback: 32, Aug.; 51, Sept.  
 Mosley TA-33, First Aid: 44, Nov.  
 Needle in a Small Drill-Bit?: 44, Jan.  
 Feedback: 39, Mar.  
 NiCad Batteries, Constant-Current Charger: 49, Mar.  
 NiCad Cells and Battery Holders, Restoring: 45, Jan.  
 NOAA Weather Reports on 2-Meter FM Rigs: 45, Jan.  
 Novice Station — Economy Style: 49, Aug.  
 OSCAR Reminder: 44, Sept.  
 OSCAR SSB Spotting: 45, Nov.  
 Overvoltage Cutout for Field Day Generators: 49, Mar.

PC Boards, More on: 48, Aug.  
 PC Boards, Removing Transistors: 46, June  
 PEP Wattmeter, Switching Arrangement: 45, Oct.  
 Plastic-Bag Ties Make Neater Cable Harnesses: 56, Apr.  
 Plastic-Tab Transistor Insulator by the Yard: 51, July  
 Plastic Tubing Insulation: 45, Dec.  
 Potentiometer Turned Inductor: 48, May  
 Printed Circuit Face Lift: 49, Aug.  
 QST Course Receiver, More Audio: 45, Oct.  
 Radials Installed the Easy Way: 48, Aug.  
 Removing Hard-to-Reach PA Tubes: 45, Jan.  
 Repairing Threads on Shaft Bushings: 46, Sept.  
 S9 Noise — Well-Baked: 45, Oct.  
 Shaft-Bearings from Old Potentiometers, Use for: 49, Aug.  
 Shaft-Couplers from Knobs: 46, Dec.  
 Simplified Output Metering Protects QRP Transmitters: 57, Apr.  
 Small Drills: 45, Sept.  
 "Smart" Blown-Fuse Indicator: 48, Mar.  
 Soldering-Control Unit, Junk-Box: 51, July  
 Soldering-Iron Tip, Replacement: 44, Jan.  
 Stainless-Steel Wire, Soldering: 45, Dec.  
 Swan 250, Two More Tips: 50, July  
 Swan 250-C, ALC: 49, May  
 Tempo One S-Meter: 45, Sept.  
 Toroidal Coil Forms From Plastic Tubing: 44, Feb.  
 Toward Better-Looking Panel Labels: 45, Jan.  
 TVI Hint, Another: 45, Sept.  
 Twin Lead, Stripping: 44, Sept.  
 Type F to BNC Adaptors: 57, Apr.  
 Unwanted RF Path: 46, Dec.  
 Variable CW Resistance: 44, Dec.  
 VOX for Very Small Box Modification: 44, Dec.  
 VFOs, Adjustable Temperature Compensation: 43, Feb.  
 Wahl Cordless Soldering Irons, Short-Circuit Protection: 44, Nov.  
 Wilson 1402SM, Improved Battery Charger: 48, Mar.  
 Yaesu FT-101E/EE VOX Relay: 45, Dec.

## INTERNATIONAL NEWS

Amateur Radio Celebrates 20th Anniversary of Sister Cities International (Steinman): 60, Feb.  
 American Amateurs: Want to Operate in Czechoslovakia?: 79, June  
 Are You Legal?: 79, June  
 Bermuda: Hams to the Rescue: 55, Dec.  
 Brazil Brews Changes: 73, Mar.  
 C'est Bon: 160 Meters and 2-Meter Repeaters: 68, May  
 Denmark: 50 Years of Amateur Radio: 55, Dec.  
 Friedrichshafen: 61, Oct.  
 Geneva: Getting Ready: 75, Apr.  
 Gibraltar — Welcome!: 73, Mar.  
 Greece: Ancient Ideals and Amateur Radio: 68, May  
 Growth by Leaps and Bounds: 73, Mar.  
 Japan: 50 Years of Amateur Radio: 67, Jan.  
 K2UN: Uniting Humanity: 67, Jan.  
 Liberia and USA: Reciprocal Partners: 55, Dec.  
 Lord Wallace: New Leader for British Amateur Radio: 75, Apr.  
 Phone Patches, A Final Word on: 55, Dec.

Plunge Forward, The: 61, Oct.  
 Portugal: Amateur Radio Thriving: 79, June  
 Reciprocal Licensing with DU: 72, Feb.  
 So What's an IARU?: 65, Nov.  
 Suriname Officers Elected: 33, Nov.  
 Think . . . Before You Run That Patch: 71, Aug.  
 U.S./Jamaica Third-Party Agreement: 69, Sept.  
 Want to Operate in the USSR?: 75, Feb.  
 WARC-79: The Official Agenda: 69, Sept.  
 West Germany: 55, Dec.  
 What's a WARC?: 75, Feb.  
 World Telecommunications Day, May 17: 75, Apr.  
 Zambia: Spreading the Good Word: 55, Dec.

## KEYING, BREAK-IN & CONTROL CIRCUITS

Accu-Repeat, The WING (Bolin): 29, Sept.  
 Control System for Your Station: Simple and Economical, A (Harder): 31, Feb.  
 Daniel's Key (Nevels): 21, Dec.  
 Full Break-In and RIT for the HW-8 QRP Transceiver (Saylor): 22, July  
 Feedback: 20, Nov.  
 Fully Automatic Morse Code Teaching Machine, A (Cunningham): 35, May  
 How to Adjust a Straight Key and Send Good Code (Bartlett): 15, Dec.  
 Keying Wave-Shape Correction Circuit (Dome): 15, May  
 Key to Success, A (Wissell): 19, Dec.  
 Poor Boy's Paddle, A (Goldstein): 22, Dec.  
 Prototype Pulse-Code Modulation System, A (Biancomano): 24, Jan.  
 Stark Key, The (Stark): 33, May

## MEASUREMENT & TEST EQUIPMENT

Build a UTO-1 (DeMaw): 19, Oct.  
 Cardboard "Clock," — A Simple Universal Time Coordinator (Hultquist): 56, Nov.  
 Dual-Gate MOSFET Dip Meter, A (Bruin): 16, Jan.  
 DVM/Frequency Counter Becomes a Clock, The (Shriner): 18, Jan.  
 Solid-State BC-221 Frequency Meter (Rau): 35, Feb.  
 Testing Grade-Out Integrated Circuits (Norris): 17, June  
 Using a Frequency Counter as a Capacitance Meter (Kramer): 19, Aug.  
 Using the Heath SB-650 Frequency Display with the Yaesu FT-101 (Wright): 24, Mar.  
 Versatile Digital Frequency Display, A (Rand): 21, Nov.

## MISCELLANEOUS GENERAL

Anderson Answered: Local Hams Do the Job (O'Dell): 70, June  
 ARRL Code of Ethics (Aurick): 11, Nov.  
 ARRL Foundation: We'll Put You in Orbit (Shima): 62, May  
 ARRL Presents the Wide World of Amateur Radio (O'Dell): 61, May  
 Attention All Clubs: Have a Carrot on Us (Cain): 50, Aug.  
 Beware! Amateur Radio'll Get Ya if Ya Don't Watch Out! (Meyers): 51, Feb.  
 Bonanza Awaits You in the Ham-Ads, A (Goodman): 11, Dec.  
 Canadian Winter Rally, The (Goldstein): 56, Jan.  
 CB to Ham in Two Easy Classes (Kleinman): 54, Sept.  
 Cleaning Up the Airwaves, OBP-Style: 12, Nov.

Demise of the Computer Kid (Foord): 67, Apr.  
 Domestic Crisis Looms, A (Baldwin): 11, July  
 FM Repeat r News (McCoy):  
 Band Plan for the 144.5 to 145.5-MHz Repeater Band: 63, Nov.  
 Code Practice and Repeaters: 63, Oct.  
 Emergency-Oriented Repeaters: 67, Sept.  
 First French Repeater: 77, Mar.  
 First 34/94: 81, Apr.  
 Getting the Dues in — How Do We Do It?: 71, July  
 How to Report an Emergency: 69, May  
 How to Report Severe Weather — Skywarn: 73, Aug.  
 Incoming Autopatch: 77, Mar.  
 Jammers and Other Sick People: 63, Oct.  
 Microcomputers and Repeaters: 73, Aug.  
 Mt. Washington — Wind-Powered: 81, Apr.  
 Mt. Wilson Shutdown: 77, Mar.  
 New Rules: 54, Dec.  
 1977 — What Can We Expect?: 78, Feb.  
 One-Step Debounce: 78, Feb.  
 Only One Repeater?: 54, Dec.  
 RFI Problems, More: 69, May  
 Rules and Guidelines: 81, June  
 60 dB Down?: 69, May  
 Spectrum Management: 77, Mar.  
 Summertime — Vacation Time: 69, May  
 Self-Policing — Are We?: 71, Jan.  
 Travel-Tenna: 71, July  
 220, More on: 78, Feb.  
 Unlicensed Operation: 54, Dec.  
 User vs. Trustee Responsibility: 78, Feb.  
 What Is Your Council Doing?: 63, Nov.  
 45 Years of Hamming Atop Mt. Washington: (Oxton): 21, July  
 Getting High for the Bicentennial (Stephens): 52, June  
 Hamcationing — DX Style (DeMaw and Martinek): 11, Mar.  
 Ham It Up on the Broadcast Band (Margolin, Colston, Beedle, McCarthy and O'Dell): 65, June  
 Ham Newline (O'Dell): 50, Apr.  
 Ham Radio for Under \$50! (Stephens): 13, Dec.  
 Happy Birthday, WIAW! (Hart): 65, Feb.  
 JARL Awards Program (White): 56, June  
 Junk Box Fools Thieves (Harvey): 50, Sept.  
 Maritime Mobile Around South America (Albaugh): 46, Sept.  
 Mark 40 . . . and Still Going Strong (Price): 35, Aug.  
 Moonbounce Boondoggle (Overbeck): 45, Feb.  
 Network Hams: A Hobby Becomes a Career (Kleinman): 46, Nov.  
 New Era in Voice Communications, A (Harris and Gorski): 24, Dec.  
 Next Month Is Auction Night (Cain): 69, Feb.  
 Pedalera Bike Run Communications (Imes): 56, May  
 1976 Presidential Bicentennial Relay, The (Knirko): 61, June  
 Portable Victor Papa Nine (Harris): 48, Feb.  
 Profile of a Hard-Core Experimenter (Kleinman): 19, July  
 QSLs — How to Get Them in a Hurry (Brownlee, Kleinman and Tlapa):  
 Part 1: 53, Oct.  
 Part 2: 58, Nov.  
 QST Abbreviations for Terms: 88, Jan.  
 RFI Assistance List (Richman): 57, Feb.

RFI Update: 10, Sept.  
 Silent Leaf Assault, The (Thomas): 60, June  
 16 Years in Iran: the EP2BQ Story (McQuillan): 71, June  
 Sometimes It Pays to Hold Two Licenses (Dyruuff): 52, Sept.  
 Speak Up, We Can't Hear You (Hall and Gorski): 46, Jan.  
 Telegraph Keys: As American as Pumpkin Pie (Kleinman): 15, Dec.  
 20th Jamboree-on-the-Air, 1977 (Jones): 48, Oct.  
 WL2USA = Freedom (O'Dell): 70, Feb.  
 We've Only Just Begun! (Johnson): 53, Jan.  
 You Like My New Call? (Troster): 59, Aug.

#### MISCELLANEOUS TECHNICAL

Build This Solid-State Titan (Granberg):  
 Part 1: 27, June  
 Part 2: 27, July  
 Charge It! Your NiCad, That Is (Meyer): 29, Mar.  
 Combination Fixed Voltage Supply, A (Appel): 36, Nov.  
 Crowbar-Proof 12-V Power Supply, A (Watts): 36, Aug.  
 Data Set 101A — A New Solution to an Old Problem, The (Ohm): 28, Dec.  
 Emergency Broadcast System, The (Piper): 25, Oct.  
 Equalizer, The (Tauber): 18, Mar.  
 50 Years Ago (Punchard): 27, Mar.  
 5 X 3 Power Supply, The (Powell): 25, May  
 FM Repeater Audio — Good or Bad? (Avilla): 15, June  
 How Good Is Good Enough? (Technical Topics): 28, Apr.  
 Homemade Differential Capacitors (Pavlovski): 19, Nov.  
 Independent Sideband for Your Drake TR-4C (Gervenack): 27, May  
 Feedback: 32, Aug.  
 Microprocessor and Repeater Control, The (Robbins): 30, Jan.  
 Morse Code to ASCII Translator Using a Microcomputer (Novak and Zeleznikar): 39, Oct.  
 November Sweepstakes Propagation Predicting (Cain): 50, Nov.  
 Predicting the Coverage of a Repeater (Taylor): 33, Dec.  
 Printed Circuit Boards — An Easier Way (Cavin): 30, Oct.  
 Propagation — Past and Prospects (Tilton): 18, May  
 Radio Propagation and Solar Activity (Argo, Hill, Rose and Gannis): 24, Feb.  
 Resistance Synthesizer, The (Brown): 30, Nov.  
 RTTY Distribution and Control Box (Mumby): 33, Feb.  
 Second Look at Linear Tubing, A (Stephenson): 40, Mar.  
 Solar-Electric Power and the Amateur (DeMaw): 24, Aug.  
 Solid Tubes — A New Life for Old Designs (Sartori): 45, Apr.  
 Time-Delayed Tone Encoder, A (Paquette): 16, Feb.  
 Feedback: 39, Apr.  
 Technical Correspondence  
 Channelization of 10 Meters: 42, Aug.  
 Choosing Your First Receiver: 39, Sept.  
 Digital Mixer Phenomenology: 42, Mar.  
 Ghost Echoes Again . . . Echoes Again: 43, Mar.  
 Ground-Fault Indicators and EMI: 42, Aug.

IC-22S Programming, OSCAR: 42, Aug.  
 Ionospheric Prediction Book: 42, Mar.  
 Loops vs. Dipoles — Where Will It All End?: 51, Apr.  
 Morse to Alphanumeric Converter Refinements: 43, Aug.  
 Reflections on Transmatch Adjustments: 43, Mar.  
 RFI and the Urban Amateur: 52, Apr.  
 Short Antenna for Your Apartment-House Balcony, A: 42, Mar.  
 SWR Computer: 43, Mar.  
 Telephone Interconnection Arrangement, New: 42, Aug.  
 Solid-Tubes, Questions Answered: 38, Sept.  
 Ultramodern Amplifier Feedback: 38, Sept.  
 VHF Quagi, More on the: 42, Aug.  
 Tweenies (Drake): 24, Sept.  
 Ultramodern Linear Amplifier, An (Moretti): 38, May  
 Watts from the Wind (Heinen): 15, July

#### NEW BOOKS

Beginners RTTY Handbook: 43, Nov.  
 French Atlantic Affair, The (Jensen): 56, Aug.  
 Icebound in the Siberian Arctic: 49, Nov.  
 IC Timer Cookbook: 43, Dec.  
 Low and Medium Frequency Radio Scrap Book, The: 47, May  
 1977 Amateur Radio Equipment Directory: 64, July  
 RSGB Radio Communications Handbook: 43, Nov.

#### OPERATING PRACTICES

Assessing the CD Appointment Structure (Hart):  
 Part 1: 53, June  
 Part 2: 60, July  
 Chart Your Way to Better DX (Sumner): 58, Jan.  
 Contest and Emergencies (Margelli): 60, Aug.  
 Gentlemen's Band, The — 160 Meters (DeMaw): 33, Oct.  
 Operating News (Hart):  
 Contest Troubles: 89, Sept.  
 DXCC Problems: 100, May  
 Field Day Time: 103, June  
 How to Get Rid of Your SCM: 94, Aug.  
 Official Observer Topics: 90, Feb.  
 Observer Topics: 87, Nov.  
 Operating Courtesy: 89, Mar.  
 QRM: 82, Dec.  
 Response to Restructuring: 92, Oct.  
 Six-Meter Operating Award, A New: 89, Jan.  
 What Do We Talk About?: 96, July  
 WIAW Schedule Changes: 92, Apr.  
 Your SCM and How He Is Elected (Hart): 61, Jan.

#### PRODUCT REVIEW

Autek Research MK-1 Keyer: 43, June  
 Autek Research QF-1 R-C Active Filter: 44, Mar.  
 Antenna Specialists HM-224 Antenna: 55, Apr.  
 Barlow-Wadley XCR-30 Receiver: 36, Jan.  
 Bunker Ramo Solderless Connector: 46, Mar.  
 Computer Warehouse Video Monitor: 55, Apr.  
 Datong Electronics Limited — Datest 1: 55, Apr.

HAL DS-3000 Video Terminal: 46, May  
 HAL ST-6000 Demodulator: 46, May  
 Hamtronics P8 VHF Preamp: 47, May  
 Heath HR-1680 Receiver: 35, Jan.  
 Heath HS-1661 Speaker: 35, Jan.  
 Heath HW-2021 Handheld: 36, Jan.  
 Heath IP-2715 Battery Eliminator: 44, June  
 Heath IP-2718 Tri-Power Supply: 45, May  
 Hewlett-Packard 3476A: 54, Apr.  
 ICOM IC-22S: 42, Dec.  
 ICOM IC-245 Transceiver: 40, Sept.  
 Kenwood TR-7400A Transceiver: 41, Sept.  
 Kenwood TV-502 Transverter: 44, Aug.  
 KLM 40-Meter Beam: 42, Nov.  
 Kronotek RF-Actuated Timer RT-1: 37, Jan.  
 Microwave Associates 89127 10-GHz Transceiver: 42, Sept.  
 Microwave Modules  
 MMT432 transverters: 43, Sept.  
 MM1296 converter: 41, Dec.  
 MMV tripler: 41, Dec.  
 Midland 13-509 Transceiver: 43, Nov.  
 Mostek 5086 Tone-Generator IC: 63, Oct.  
 Motorola MEK6800D2 Kit: 40, Nov.  
 Multicore Alu-Sol: 44, Oct.  
 National Semiconductor — PACE Microprocessor: 44, June  
 National Semiconductor INS8080A: 44, June  
 National Semiconductor SC/MP Microprocessor: 38, Jan.  
 Omega-T 2000C Beam-Steering Combiner: 46, Mar.  
 Optoelectronics 850-4 LED Clock and TB-1 60-Hz Xtal Time Base Kits: 47, July  
 Palomar Engineers R-X Noise Bridge: 35, Jan.  
 Pipo Communications PP-1 and PP-2 Tone Encoders: 41, Feb.  
 Poly Paks Keyboard and Encoder: 41, Dec.  
 Processor Technology VDM-1: 44, Mar.  
 Processor Technology 8KRA: 44, May  
 Processor Technology SOL-20: 48, July  
 QM70 Products FMT-440 Transverter: 43, Nov.  
 Sherwood Engineering Crystal Filter: 41, Feb.  
 Sinclair D-236H 2-Meter Antenna: 54, Apr.  
 Spectronics Speccan: 43, Dec.  
 Solar Power Corp. Series "E" Solar Electric Generator: 45, Aug.  
 Solid State Sales CCD Camera Kit: 41, Feb.  
 Southwest Technical Products CT-1024 Terminal Systems Kit: 46, Mar.  
 Southwest Technical Products — 6800 Computer System: 53, Apr.  
 Ten-Tec Century 21 Transceiver: 41, Dec.  
 Theta Labs Entry Sentry: 46, Aug.  
 Toltec Wire-Wrapping Supplies: 40, Dec.  
 Vomax Speech Processor: 46, Aug.  
 Weston 6000 Digital Multimeter: 44, May  
 Wilson 2202SM Handheld: 40, Dec.  
 Yaesu FT221 Transceiver: 46, July  
 Yaesu FT-301D Transceiver: 42, Oct.

## PUBLIC SERVICE

Baptism by Fire, A (Gribi): 52, Nov.  
 Beverly Hills Disaster, The (Johnston, Weaver and Halprin): 52, Aug.  
 Centennial Catastrophe (Cotterell): 60, Mar.  
 Inferno in Friuli (Halprin): 55, May  
 Kentucky Flood Diary (Bray): 58, Aug.  
 NYC Blackout, Amateurs Respond to: 94, Oct.  
 Public Service (Halprin)  
 As the Beam Turns . . . : 77, Sept.  
 Blizzards in August: 84, Aug.  
 Hamus Trafficus: 81, May  
 Highlights — NTS Pacific Area Staff

Meeting: 89, Apr.  
 Highlights — NTS Staff Meetings: 79, Jan.  
 Johnstown: One Man's Opinion: 59, Dec.  
 Lights Out: 76, Nov.  
 New Start for NIAC, A: 85, Mar.  
 QRM Call: 72, Oct.  
 Repeat That Message: 82, July  
 Survival: 86, Feb.  
 When All Else Fails: 101, June  
 Simulated Emergency Test Results, 1977: 84, July  
 Feedback: 32, 34, Aug.  
 Announcement, 1978: 70, Dec.  
 Twisters Take Tolls — Hams Hurry Help (Bailey, Bohorfoush and Morris): 54, Aug.  
 Section Emergency Coordinators: 71, Dec.

## RECEIVING

Add Variable-Bandwidth Tuning to Your Fixed-Bandwidth Receiver (Hulick): 19, Sept.  
 Build This "Quickie" Preamp (DeMaw): 43, Apr.  
 Extended Frequency Range for the Collins 75S-1, An (Gibbs): 28, Oct.  
 Gated Noise Source, A (Hartson): 22, Jan.  
 High-Performance Low-Frequency Converter, A (DeMaw and Rusgrove): 23, June  
 Know Your Receiver (Tyrell): 38, Aug.  
 New-Look Noise Blanker That Works, A (Frankel): 39, Jan.  
 Noise Blanker, Still More on the SBA-104-1 (Davis): 33, Aug.  
 Noise Blanker, Updating the (Frankel): 33, Aug.  
 Passive CW Filter to Improve Selectivity, A (Noble): 34, Nov.  
 TR-4C Outboard Receiver Modifications (Sheller): 29, Feb.

## REGULATIONS

All Special Calls — Doomed? (Williams): 58, Apr.  
 Amplifiers, Type Acceptance — FCC's Latest Proposals (Steinman): 61, Apr.  
 Deregulation — Another Round (Gorski): 50, Mar.  
 Regulations Revisited (Williams): 56, Mar.  
 Washington Mailbox (Steinman):  
 Amateur Rules: 80, June  
 Bootleggers: 73, Sept.  
 Bulk Balk: 73, Sept.  
 Call Signs: 76, Apr.  
 Canada, Operating in: 73, Sept.  
 Citation Notices: 72, Mar.  
 Code Tests: 64, Oct.  
 Communicator: 64, Oct.  
 Comprehensive Code Exams: 72, May  
 Duplicate Licenses: 74, July  
 Exam Procedure, FCC: 76, Aug.  
 Exams, More About: 72, May  
 Fees: 76, Apr.  
 Form 610: 67, Nov.  
 Grandfathering, More on: 73, Sept.  
 Grandfathers, 72, May  
 I-D Requirements: 64, Oct.  
 Instant Upgrading: 80, June  
 Interim Permits: 74, July  
 Logging Requirements: 73, Feb.  
 Mail Exams for Disabled: 64, Oct.  
 New Calls: 73, Sept.  
 Novices: 76, Apr.  
 Novice Test Required: 73, Sept.  
 Overseas Exams: 80, June  
 Permanent Station Modification: 69, Jan.  
 Portable and Mobile Operation: 69, Jan.  
 QSY I-D: 67, Nov.  
 Renewals: 74, July  
 Repeater Deregulation: 56, Dec.

Repeaters: 74, July  
 Third-Party Communications: 80, June

## SATELLITES

Educators Learn About OSCAR and Amateur Radio (Kleinman): 48, June  
 Getting to Know OSCAR from the Ground Up (Kearman, Kleinman and Harris):  
 Part 1: 50, Jan. Part 4: 58, Apr.  
 Part 2: 53, Feb. Part 5: 50, May  
 Part 3: 52, Mar.  
 OSCAR 6: Gone but Not Forgotten: 31, Nov.  
 Phase III, Toward the Ultimate Amateur Satellite (King): Part 1: 11, June  
 Part 2: 52, July Part 3: 11, Aug.  
 Russian Satellite: 12, Nov.  
 See OSCAR and Lots More at Kennedy Space Center (Harris): 50, June  
 Update Your OSCARLOCATOR — And Your Amateur Radio Library (Ahlquist): 47, Oct.

## TECHNICAL PRINCIPLES & APPLICATIONS

Active Low-Pass Filters for CW or SSB (Berg): 40, Aug.  
 Designing Solid-State RF Power Circuits (Olsen): Part 1: 28, Aug.  
 Part 2: 15, Sept.  
 Part 3: 22, Oct.  
 Design Your Own Active Audio Filters (Berlin): 32, June  
 Learning to Work with Integrated Circuits (Hall and Watts): Part 9: 20, June  
 Simple Approach to Complex Circuits, A (Hall): 35, July  
 Feedback: 41, Aug.  
 TVI Sleuths at Work (Harrington): 11, Feb.  
 Understanding Linear ICs (DeMaw):  
 Part 1: 11, Jan.  
 Part 2: 19, Feb.  
 Feedback: 39, Apr.  
 Part 3: 21, Mar.  
 Updating Your HF MUF Predictions Daily (Sartori): 35, Sept.  
**VHF & MICROWAVES**  
 Build This Solid-State PA for 440 MHz (Olsen): 37, Feb.  
 Introduction to the World Above 50 MHz, An (Kearman): 13, Nov.  
 60-Watt Solid-State UHF Linear Amplifier, A (Buscemi): 42, July  
 Sweep 6 Meters and Really Clean Up! (Bingham): 27, Apr.  
 Phase-Locked 2-Meter Transmitter, A (Helfrick): 37, Mar.  
 1296-MHz Signal, A (DeMaw): 26, Mar.  
 Two-Meter J Antenna, A (Freely): 35, Apr.  
 VHF DX via Meteor Scatter (Stewart): 31, Dec.  
 VHF Quagi, The (Overbeck): 11, Apr.

## WORLD ADMINISTRATIVE RADIO CONFERENCE

ARRL Responds to FCC Frequency Proposals (Sumner): 64, Apr.  
 Amateurs Respond to FCC WARC Inquiry (Sumner): 50, Oct.  
 Canadian WARC Proposals List New Ham Bands, First (Sumner): 64, June  
 FCC WARC Proposals, Round 2 (Sumner): 56, July  
 Radio Amateur WARC-79 Honor Roll: 23, Jan.  
 U.S. WARC Position Begins to Take Shape, The (Sumner): 62, Feb.

ॐ नमो भगवते वासुदेवाय ॥ श्रीकृष्णाय नमः ॥